

Patent
Att.

WHAT WE CLAIM IS:

1. An EL device having a structure in which a first electrode formed according to a predetermined pattern, a first insulator layer, an electroluminescence-producing light emitting layer, a second insulator layer and a second electrode layer are successively stacked on an electrical insulating substrate, wherein:

5 at least one of said first insulator layer and said second insulator layer contains as a main component barium titanate and as subordinate components magnesium oxide, manganese oxide, yttrium oxide, at least one oxide selected from barium oxide and calcium oxide, and silicon oxide, with ratios of magnesium oxide, manganese oxide, yttrium oxide, barium oxide, calcium oxide and silicon oxide with respect to 100 moles of barium titanate being:

10 MgO: 0.1 to 3 moles,
MnO: 0.05 to 1.0 mole,
Y₂O₃: 1 mole or less,
BaO+CaO: 2 to 12 moles, and
15 SiO₂: 2 to 12 moles,
as calculated on MgO, MnO, Y₂O₃, BaO, CaO, SiO₂ and BaTiO₃ bases, respectively.

20 *Sue*
Att.

2. The EL device according to claim 1, wherein said electrical insulating substrate and said first insulator layer are each formed of a ceramic material.

25 *Att.*

3. The EL device according to claim 1 or 2, which contains BaO, CaO and SiO₂ in a form represented by (Ba_xCa_{1-x}O)_y·SiO₂ where 0.3 ≤ x ≤ 0.7 and 0.95 ≤ y ≤ 1.05 and in an amount of 1 to 10% by weight with respect to the sum 30 of BaTiO₃, MgO, MnO and Y₂O₃.

35 *Sue*
Att.

4. The EL device according to claim 2 or 3, wherein said first electrode contains one or two or more of Ni, Ag, Au, Pd, Pt, Cu, Ni, W, Mo, Fe, and Co or any one of Ag-Pd, Ni-Mn, Ni-Cr, Ni-Co and Ni-Al alloys.

Att.
Att.

att.
att.